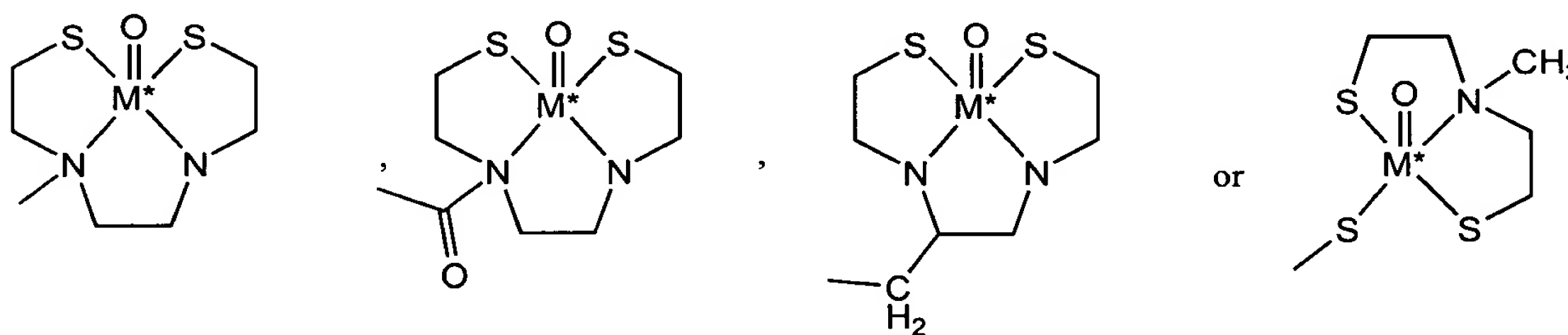


consisting of lower alkyl,  $(CH_2)_nOR'$ ,  $CF_3$ ,  $CH_2-CH_2X$ ,  $O-CH_2-CH_2X$ ,  $CH_2-CH_2-CH_2X$ ,  $O-CH_2-CH_2-CH_2X$  (wherein  $X=F, Cl, Br$  or  $I$ ),  $CN$ ,  $(C=O)-R'$ ,  $(C=O)N(R')_2$ ,  $O(CO)R'$ ,  $COOR'$ ,  $CR'=CR'-R_{ph}$  and  $CR_2'-CR_2'-R_{ph}$  wherein at least one carbon is  $^{11}C$ ,  $^{13}C$  or  $^{14}C$  and a chelating group (with chelated metal group) of the form  $W-L^*$  or  $V-W-L^*$ , wherein  $V$  is selected from the group consisting of  $-COO-$ ,  $-CO-$ ,  $-CH_2O-$  and  $-CH_2NH-$ ;  $W$  is  $-(CH_2)_n$  where  $n=0,1,2,3,4$ , or  $5$ ; and  $L^*$  is:



wherein  $M^*$  is  $^{99m}Tc$ .